

U.S. ARMY MATERIEL COMMAND  
**LOGSA**  
SUPPORTING WARFIGHTERS GLOBALLY

**Army Corrosion Summit**

**9 Feb 10**

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**SUSTAINING THE ARMY THROUGH THE MATERIEL LENS...**

**CONFRONT CHALLENGES -- CONQUER ADVERSITY -- SOAR TO EXCELLENCE!**

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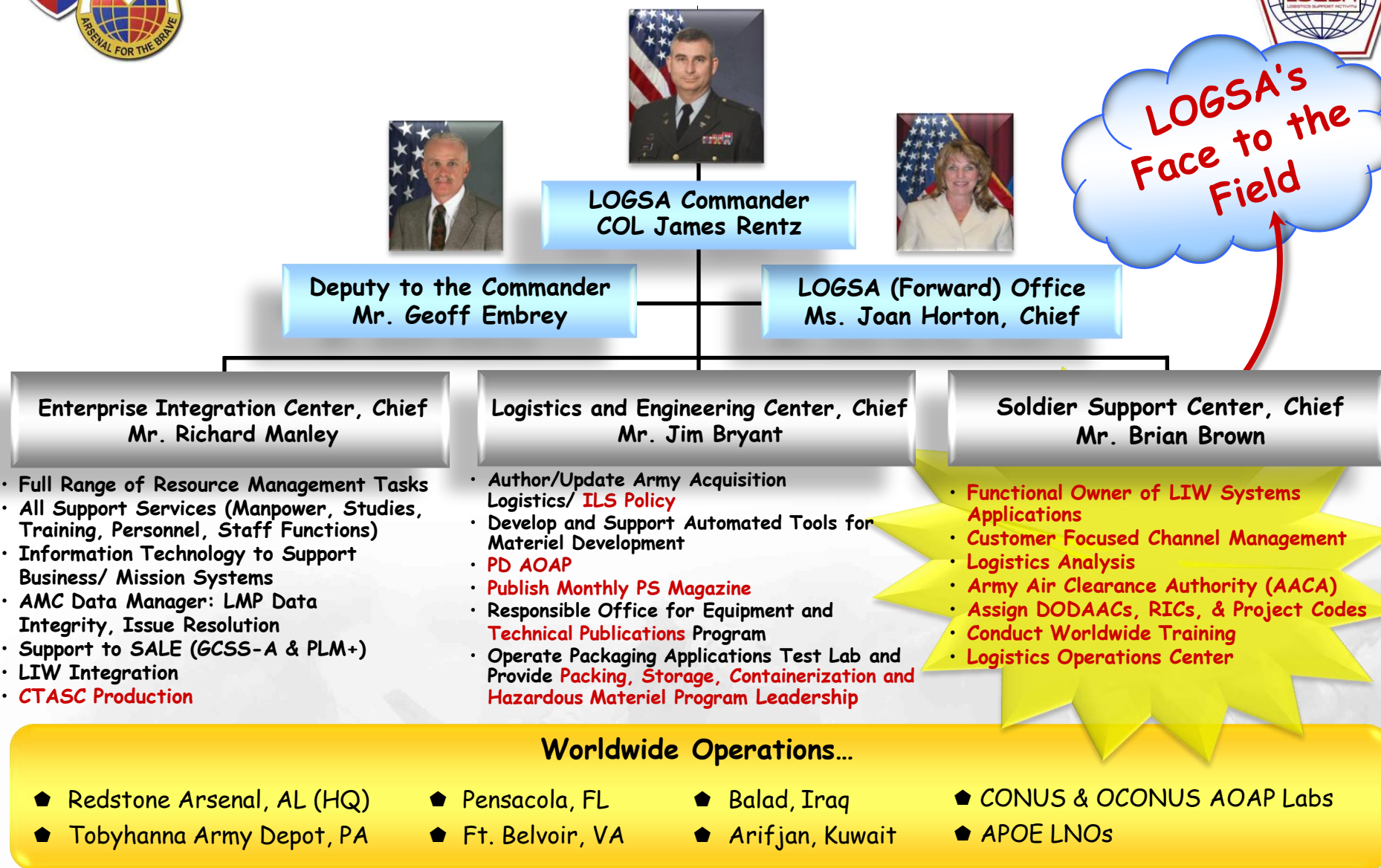
# LOGSA Mission



As the Army's Authoritative Source for Logistics Data, Provide **Logistics Intelligence**, Life Cycle Support, Technical Advice, and Assistance **to the Current and Future Force**; Integrate Logistics Information (Force Structure, Readiness, and other Logistics Data) for Worldwide Equipment Readiness, Distribution Analysis, and Asset Visibility for Timely and Proactive Decision Making.



# LOGSA Command Structure



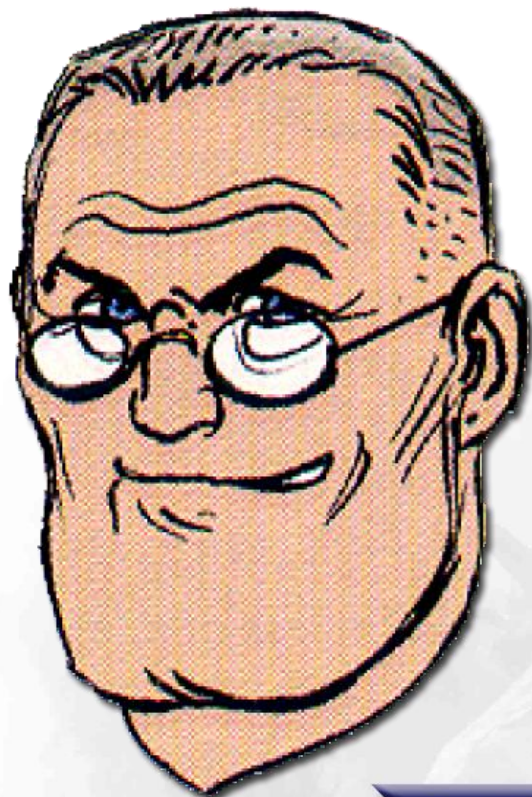


# PS Magazine's Efforts to Combat Corrosion



From AR 700-138:

5-13. The Preventative Maintenance Monthly: This is an official technical bulletin published monthly by DA and distributed throughout the Army. It is intended to enhance materiel readiness by identifying and emphasizing proper maintenance and supply procedures. Review of PS Magazine should be a regular part of unit readiness initiatives...



- Jan 2000-Dec 2009...  
357 "CORROSION" references  
(an average of 3 instances per issue)
- CY09... 11 of 12 issues contained references to "CORROSION"
- Dec 09 issue contained 6 "CORROSION" references
- Expect a full-length "CORROSION" article in July, 2010

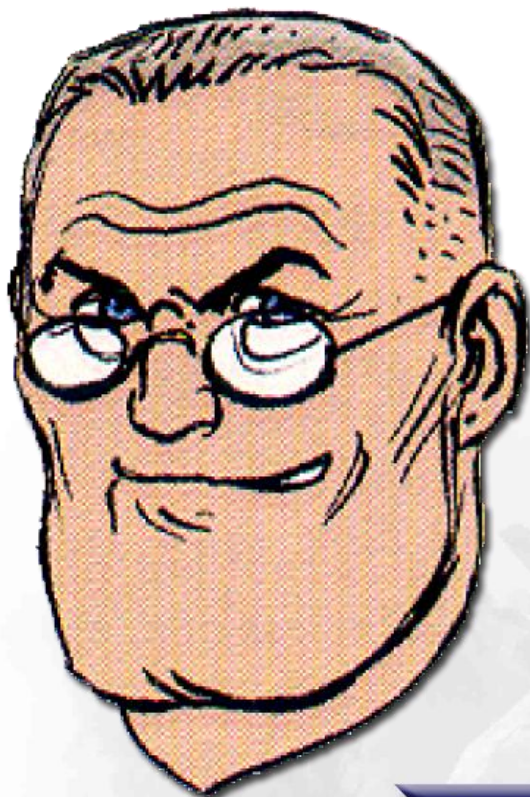




# PS Magazine's Efforts to Combat Corrosion



## "CORROSION" references in PS 685 (Dec 09)...



- **Editorial page:** *"Check the hydraulic systems on low-use vehicles. As vehicles cool down after use, moisture can condense in the vehicle's hydraulic reservoir. Condensation can cause corrosion in the reservoir and the hydraulic system."* (Low Use Vehicle)
- **Page 7:** *"Sure, you can slow the damage by occasionally wiping away any condensation in the ammo compartment. But to really put the brakes on corrosion, you've got to stop moisture."* (Abrams Tanks)
- **Page 20:** *"Use test kit. NSN 6850-01-154-3653, to test the nitrite (corrosion protection) level of antifreeze."* (Vehicles)
- **Page 24:** *"Even if the barrel doesn't get so hot that it's warped, the heat can take the finish right off the barrel. Then corrosion has an open door."* (Small Arms)
- **Page 25:** *"...the cap traps moisture in the barrel, which leads to corrosion."* (Small Arms)
- **Page 51:** *"Rubbing alcohol removes the protective coating on the compartments' walls, which can lead to corrosion and arcing."* (Sentinel Radar System)



# Technical Publications



Program Management	Printing and Distribution Program
	DoD LSA TMSS
	ETM/ IETM Responsible Office
ETM/ IETM	Sustain Army ETM/ IETM Website
	Produce and Sustain Weapon System CDs
Customer Support	Equipment Oriented Publications Database
	LOGETM
	LCMC Support



- 12,500+ ETMs on Web
- 18 address corrosion
- TB 43-0213 - Corrosion Prevention and Control including Rustproofing Procedures for Tactical Vehicles and Trailers (578 hits)
- TM 1-1500-344-23-1, Cleaning and Corrosion Control Volume 1 (460 hits)



# Integrated Logistic Support (ILS) Policy

UNCLASSIFIED



- **Current Army Level Regulations and Pamphlets contain very high level statements regarding prevention and control of corrosion**
  - AR-700-127, ILS. Corrosion is identified as a logistics related design influence parameter affecting the supportability, availability, and life cycle cost of a system
  - DA PAM 700-56, Logistics Supportability Planning and Procedures in Army Acquisition. The R&M effort on any acquisition program should emphasize...thermal, shock, vibration, corrosion, durability...analyses and tests
  - DA PAM 700-127, ILS Managers Guide. Currently no coverage

**Issue for the next Army ILS Executive Committee (3-5 Mar 10)**



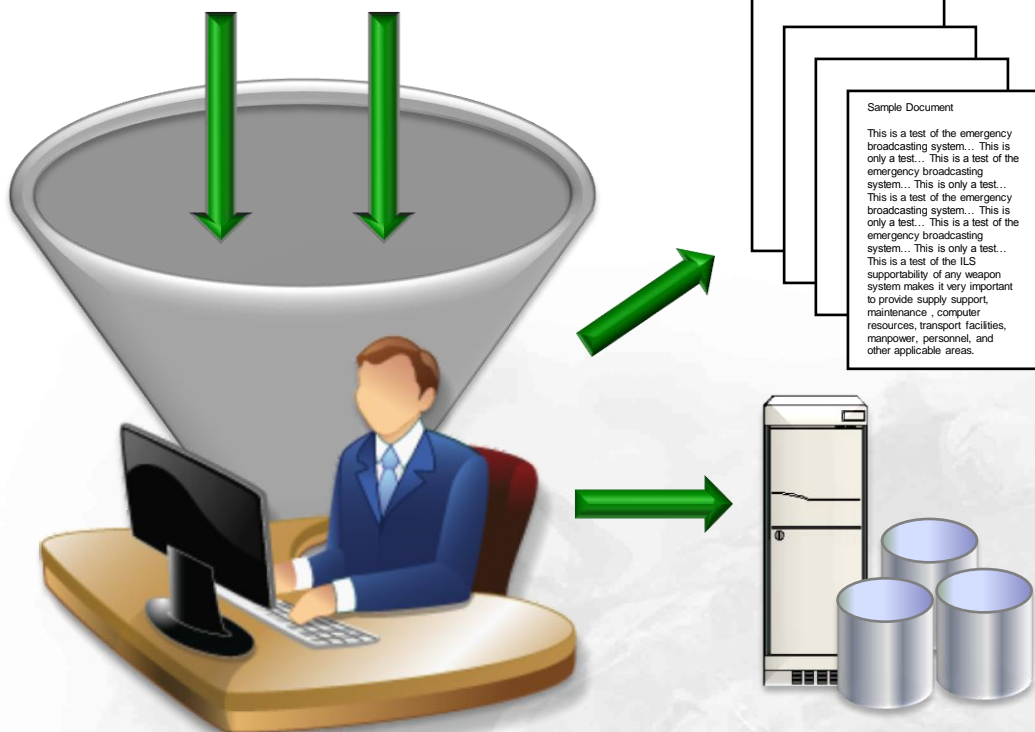


# Logistics Supportability Planning



## How SYSPARS Works

Latest Policy  
Training Information  
Lessons Learned  
Expert Knowledge/Experience



## SYSPARS Integrated Documents

- Acquisition Strategy
- Business Case Analysis (BCA)
- IUID Plan
- Supportability Strategy
- Performance Based Logistics (PBL)
- Materiel Fielding Plan
- Provisioning Plan
- Performance Based Agreement
- ILS Statement of Work
- Transportability Report
- Supportability Assessment
- Life Cycle Milestone Schedule
- Warranty Advisor
- Simulation Support Plan (SSP)
- DMSMS Management Plan
- Proposed: Corrosion Prevention and Control Plan



# Packaging, Storage, and Containerization Center



- Packaging and Preservation are critical elements of Corrosion Control
- PSCC is DoD's largest packaging applications test facility
- PSCC is the designated lead service testing activity for the following Materials and Processes:

## Materials

- Tapes
- Adhesives
- Barrier Materials
- Preservation Materials
- Desiccant
- Fiber Board Boxes
- Wood Boxes
- Wire Bound Boxes
- Non-metal Pallets
- Marking and Labeling Materials
- Bags and Sacks
- Tags, Document Protectors, and Packaging Lists



## Processes/Systems

- Unitization Systems
- Marking and Labeling Systems
- Stretch Wrap Systems
- Cold-Seal Packaging Systems
- Plastic Wrap Systems
- Plastic Bag/Package Forming Systems
- Vacuum Formed Thermoplastic Systems



# Corrosion Testing Examples



- **Night Vision Goggle Helmet Mount Assembly**
  - Testing for Tobyhanna Army Depot to evaluate the mechanical components of the mount assembly
  - Testing IAW Per Mil Std 810F Environmental Engineering Considerations and Laboratory Tests
- **Bar Code Labels**
  - Salt Fog Testing is conducted to evaluate various labels, inks and surfaces that would be subject to marine conditions
- **M-16 Rifle Barrier Material**
  - Tested materials to determine optimum storage pack
- **PSCC provides their testing services to private industry by authority of 10 United States Code (USC) §2539b**





# Conclusion



- Corrosion prevention is addressed in a number of LOGSA products and services
  - Policy
    - AR 700-127 and related policies
  - Tools
    - Acq Log Tools
    - SYSPARS
  - Services
    - Packaging, Storage, Testing, Training
  - Publications
    - Technical Publications
    - PS Magazine





[HTTPS://WWW.LOGSA.ARMY.MIL](https://www.logsa.army.mil)